

ABSTRACT

The present invention describes templated combinatorial chemical libraries comprised of a plurality of bifunctional molecules having both a chemical compound and a nucleic acid tag that defines 5 the structure of the chemical compound and directs its synthesis. Also described are methods for producing, enriching and *in vitro* evolution of the bifunctional molecules of such libraries based on the nucleic acid tags and methods for selecting for library compounds having a desired activity.

666733 2017-06-06